

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S137	156	orientation with (digital adj compass)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 14:55
S138	14	S137 and (submersible or pool or underwater)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 14:56
S139	128	((digital or electronic) near0 compass) and (submersible or underwater)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 18:39
S140	34	((digital or electronic) near0 compass) and (submersible or underwater) and (robot or robotic)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 18:40
S141	30	((digital or electronic) near0 compass) and (submersible or underwater) and orientation and (robot or robotic)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 18:41
S142	17	((digital or electronic) near0 compass) and (submersible or underwater) and orientation and (robot or robotic) and (remote near3 control)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 18:50
S143	17	(pool near3 cleaning) and (robot or robotic or autonomous) and (remote adj control)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 18:52
S144	644	((pool near3 cleaning) or (underwater or submersible)) and (robot or robotic or autonomous) and (remote adj control)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 19:01
S145	19920	(scan\$4 adj (pattern or algorithm))	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 19:57
S146	39	(scan\$4 adj (pattern or algorithm)) with robot	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 19:58
S147	346	(scan\$4 adj (pattern or algorithm)) and (unshape or shape or non\$1rectangular) and pool	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 20:09
S148	346	(scan\$4 adj (pattern or algorithm)) and (shape or non\$1rectangular) and pool	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 20:09
S150	26	(scan\$4 adj (pattern or algorithm)) same (shape or non\$1rectangular) and pool	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 20:10
S151	2	(scan\$4 near3 (pattern or algorithm)) same (shape near3 pool)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/31 20:14
S152	173568	(robot or manipulator or autonomous or self \$guid\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/01 10:47

S153	11061	S152 and ((remote or wireless or wirelessly near0 (control or controlling or controller))	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/01 10:48
S154	663	S153 and (underwater or submersible)	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/01 10:49
S155	38	S154 and cleaning and pool	US-PGPUB; USPAT; USOCR	OR	ON	2011/06/01 10:50
S157	1	("20070094817").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/06/01 10:58
S158	3943	700/245,253,255,258,262,302.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:58
S159	2077	180/167,168,169.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:58
S160	2020	318/568,12,580,581,587.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:58
S161	5399	701/50,213.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:58
S162	1160	901/1.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:58
S163	53	(S158 S159 S160 S161 S162) and cleaning and pool and robot	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:59
S164	13	(S158 S159 S160 S161 S162) and cleaning and pool and robot and (external near3 power near3 supply)	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 12:59
S165	4	(S158 S159 S160 S161 S162) and cleaning and pool and robot and (external near3 power near3 supply) and tail and battery and charg\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:00
S166	4	(S158 S159 S160 S161 S162) and pool and robot and (external near3 power near3 supply) and tail and battery and charg\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:02
S167	6	pool and robot and (external near3 power near3 supply) and tail and battery and charg\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:02
S168	3	pool and robot and (orientation near3 (stor\$3 or memory)) and scanning	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:03
S169	5	pool and robot and (orientation near3 (stor\$3 or memory)) and scanning	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:03
S170	28	robot and pool and (orientation and (stor\$3 or memory)) and scanning and float\$1 and antenna	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:05
S171	39	robot\$3 and pool and (orientation and (stor\$3 or memory)) and scanning and float\$1 and antenna	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:05

S172	15	(remote adj control) and robot\$3 and pool and (orientation and (stor\$3 or memory)) and scanning and float\$1	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:09
S173	14	(remote adj control) and robot\$3 and pool and cleaning and (orientation and (stor\$3 or memory)) and scanning and float\$1	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:09
S174	16	autonomous and pool and cleaning and (orientation and (stor\$3 or memory)) and scanning and float\$1	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/15 13:12
S190	374	pool and clean\$3 and tethering	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 14:39
S191	24	("4154680" "4835809" "4837886" "4849024" "5197158" "5337434" "5435031" "5985156" "6039886" "6090219" "6294084" "6365039" "6387250" "6412133" "6498878").PN. OR ("6485638").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 15:24
S192	25	(pool near3 clean\$3) and tethering and (robot\$5 or self\$1propel\$4 or unmanned or autonomous)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 15:57
S193	43	(pool near3 clean\$3) and tether\$3 and (robot\$5 or self\$1propel\$4 or unmanned or autonomous)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 16:01
S194	46	pool adj cleaning adj robot	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 16:56
S195	181	robot\$4 near3 vacuum near3 cleaning	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 17:02
S196	4	float\$3 near2 control\$4 near2 tail	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/06 14:12
S197	7	bouy near2 control\$4 near2 tail	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/06 14:13
S198	7	bouy\$3 near2 control\$4 near2 tail	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/06 14:18
S199	0	bouy\$3 near2 control\$4 near3 charging	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/06 14:19
S200	6	bouy\$3 near3 control\$3 same charging	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/06 14:19
S201	4	((4962559") or ("5507058") or ("5454129") or ("6099658")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/09/06 14:52
S202	148	((swimming adj pool) or basin) with cleaning with (float\$3 or buoy\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/06 14:58
S203	8	sumersible	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 16:17

S204	424	(underwater or sumersible or submersible or submerged) near3 robot\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 16:19
S205	125	S204 and (floating or buoy\$5) and control	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 16:20
S206	13	S204 and (floating or buoy\$5) and control and tethering	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 16:20
S207	84	S204 and (floating or buoy\$5) and control and cable	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 16:28
S208	1	("5569371").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/09/07 16:41
S209	194	bouyant adj housing	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 17:19
S210	2	(bouyant adj housing) same robot\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 17:19
S211	15	(bouyant adj housing) same clean\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/07 17:19
S212	1	(predetermined adj location) and (wall near3 encounter) and (battery near3 drop)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:39
S213	1	(predetermined near3 location) and (wall near3 encounter) and (battery near3 drop)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:40
S214	65	(predetermined near3 location) and (wall) and (battery near3 drop)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:40
S215	54	(predetermined adj location) and (wall) and (battery near3 drop)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:41
S216	6	(predetermined adj location) and (wall) and (battery near3 drop) and robot	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:44
S217	6	(predetermined near3 location) and (wall) and (battery near3 drop) and robot	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:47
S218	43	(predetermined near3 location) and (wall) and (voltage near3 drop) and stop and robot	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:47
S219	137	(predetermined near3 location) and (wall) and (voltage near3 drop) and stop and vacuum	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:56
S221	2	(predetermined near3 location) and (wall) and ((voltage near3 drop) with stop) and vacuum	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:56
S223	53	(wall adj encounter) and (robot\$3 or vacuum or autonomous)	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:58

S224	35	(wall adj encounter) and (robot\$3 or vacuum or autonomous) and stop\$4	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:58
S226	6	(wall adj encounter) and (robot\$3 or vacuum) and stop\$4 and ((battery or batteries or charg\$3 or voltage) with (level or drop\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 15:59
S227	22	(wall adj encounter) and (robot\$3 or vacuum) and stop\$4 and ((battery or batteries or charg\$3 or voltage) and (level or drop\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:00
S228	13315	(robot\$4 or vacuum or self\$guide opr unmanned or autonomous) same ((battery or voltage) near3 (drop\$4 or level or charg \$3))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:06
S229	13272	(robot\$4 or vacuum or self\$guide or unmanned or autonomous) same ((battery or voltage) near3 (drop\$4 or level or charg \$3))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:06
S230	12663	(robot\$4 or vacuum) same ((battery or voltage) near3 (drop\$4 or level or charg\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:06
S231	3195	(robot\$4 or vacuum) with ((battery or voltage) near3 (drop\$4 or level or charg\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:07
S232	16	(robot\$4 or vacuum) with ((battery or voltage) near3 (drop\$4 or level or charg\$3)) near3 stop\$4	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:07
S233	81	(robot\$4 or vacuum) with stop\$4 with ((battery or voltage) near3 (drop\$4 or level or charg\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/08 16:17
S234	2	("5646494") or ("7133746").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/09/08 16:50
S235	2	("5646494") or ("7133746").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/09/09 23:24
S236	2	S235 and cleaning and robot and stop and voltage and battery	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/09 23:24

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S175	0	(robot\$3 and pool and cleaning and (orientation and (stor\$3 or memory)) and scanning and float\$1).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:15
S176	1	((pool near3 cleaning) and (robot or robotic or autonomous) and (remote adj control)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:15
S177	6	((pool near3 cleaning) or (underwater or submersible)) and (robot or robotic or autonomous) and (remote adj control)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:16

S178	0	(drive same4 (threshold or predetermined) same4 current same4 (control\$4 or processor or microprocessor) same4 wall same4 pool same4 (robot\$2 or cleaner or unmanned or selfguided or autonomous)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:17
S179	0	(robot and pool and (orientation and (stor\$3 or memory)) and scanning and float\$1 and antenna).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:18
S180	2	(pool and scan\$4 and direction and angle and (reorient\$3 or oriented or orientation or orientating)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:19
S181	0	(pool and robot and (external near3 power near3 supply) and tail and battery and charg\$3).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:19
S182	0	(cleaning and pool and robot and (external near3 power near3 supply)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:20
S183	0	(cleaning and pool and robot and (external near3 power near3 supply) and tail and battery and charg\$3).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:20
S184	0	((remote adj control) and robot\$3 and pool and (orientation and (stor\$3 or memory)) and scanning and float\$1).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:20
S185	0	((swimming adj pool) and (cleaning adj robot) and (external adj power adj supply) and housing and battery and (tail adj unit) and connector and charging and (tethering adj cable)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:23
S186	0	((tail adj controller) and (swimming adj pool) and (cleaning adj robot) and (external adj power adj supply) and housing and battery and (tail adj unit) and connector and charging and (tethering adj cable)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:23
S187	0	((scanning adj algorithm) and (tail adj controller) and (swimming adj pool) and (cleaning adj robot) and (external adj power adj supply) and housing and battery and (tail adj unit) and connector and charging and (tethering adj cable)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:24
S188	0	((scanning adj algorithm) and (swimming adj pool) and (cleaning adj robot) and (external adj power adj supply) and housing and battery and (tail adj unit) and connector and charging and (tethering adj cable)).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:24
S189	0	((scanning adj algorithm) and (swimming adj pool) and (cleaning adj robot) and (external adj power adj supply) and housing and battery and (tail adj unit) and connector and charging).clm.	USPAT; UPAD	OR	ON	2011/07/15 13:24

9/10/2011 8:16:00 PM

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